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PHOTOGRAPHIC INTERPRETATION REPORT

CHRONOLOGY OF ARMAMENTS PLANT 66 ZLATOUST, USSR

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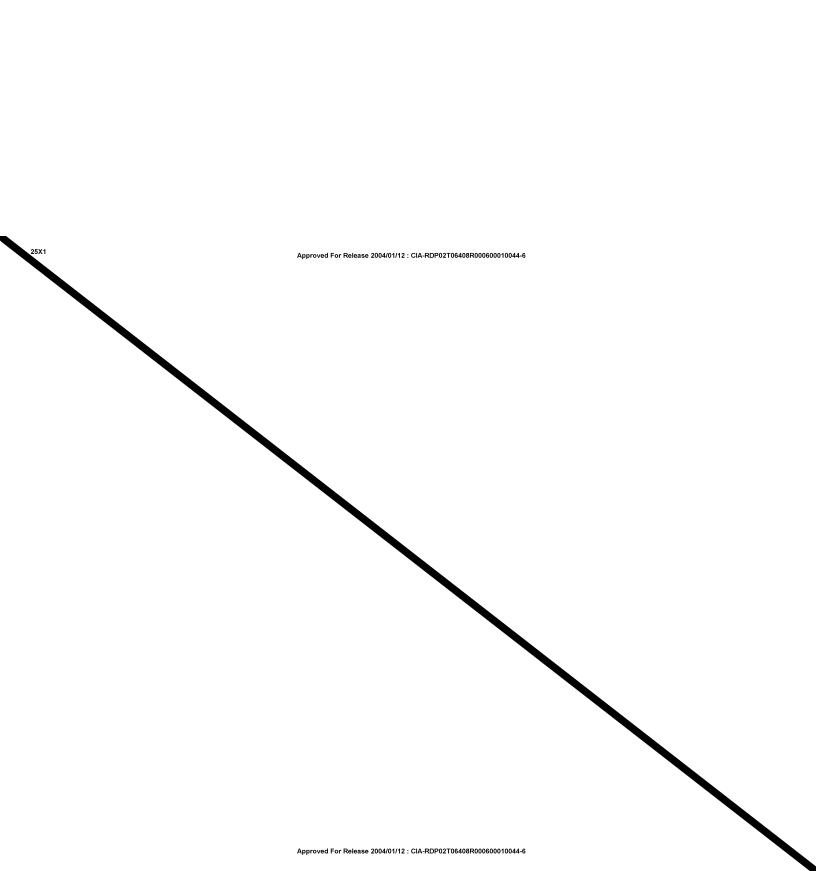
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INTRODUCTION

This report is a chronological study of Armaments Plant 66, Zlatoust, USSR 55-05N 059-43E), one of a series of reports on missile production and test facilities. Armaments Plant 66 (Figures 1 and 2) will be referred to as Arms Plant 66 in the remainder of the report. All item numbers in the text are keyed to Table 1 and Figure 3.

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Arms Plant 66 is situated in a small valley approximately 5 nautical miles (nm) south-southeast of Zlatoust. The site covers more than 400 acres. Although the exact boundaries cannot be precisely determined, the plant appears to be composed of 2 large, separately secured industrial areas which will be designated as the North Area and the South Area. The structures in these 2 areas contain approximately 2 million square feet (sq ft) of roof cover. There are at least 51 major structures in the installation including a horizontal test building (item 50), 5 large fabrication/ assembly buildings (items 15, 16, 37, 39, and 41), a foundry (item 5), machine shops, and various related workshops and support buildings.



CHRONOLOGY OF ARMAMENTS PLANT 66 ZLATOUST, USSR

FIGURE 1. LOCATION MAP.

Utilities for Arms Plant 66 include a large steamplant and an electrical substation situated between the North and South Areas. A good road and rail network is situated within the plant areas. A housing section is located immediately east of the plant. The construction of some new housing units, begun in 1964 and completed in 1966, was probably related to the construction of the large new fabrication/ assembly building (item 37).

A separately secured section on the northeast side of the South Area contains approximately 24 small workshops with a total of of roof cover. This section may be used for storage/support. Except for one large new building, this section has undergone essentially no change since 1962. For this reason, it will be excluded from the line drawing (Figure 3) and Table 1.

Rifles, machine guns, and antiaircraft guns have been produced in Arms Plant 66 since World War II. 1/ In the 1950s there were indications that the plant had begun missile production, in particular the SCUD SSM. 2/ However, there was no photography of the plant available at this time to confirm this.

The first photography of the plant was in The small scale and limited interpretability

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of thesystem precluded the identification of any missiles, missile components, or test buildings. The first large-scale,photography was not obtained untilOn this photography the missile production capability of the plant could be confirmed by the identification of a horizontal test building (item 50 and Figures 4 and 5). Furthermore, 5 crates, measuring approximatelyfeet, were observed outside a fabrication/assembly building.	Only 1 building (item 37) has significantly altered the total working area of the plant, increasing it by 200,000 sq ft. Two buildings in an early stage of construction have been newly identified on the photography.	No significant construction changes were observed in the 2 plant areas. However, east of the plant areas, new housing was being erected. This activity appeared to be concurrent with the construction of the new fabrication/assembly building (item 37) in the North Area.	25X1
A crate of this size could be used for shipment of the SCUD-B SSM. The horizontal test building (item 50) was observed in	HIGHLIGHTS OF CHRONOLOGY	1965	
the northwest corner of the plant. The overall dimensions of the building are feet with a height of 15 feet. The positioning of the roof monitors indicates that the building may contain 4 test cells which are directed toward	Between Arms Plant 66 has been observed photography. In some instances, the first evidence of construction and dates of completion could not be accurately determined	A new shop building (item 22) was begun in the South Area in No other new construction was noted.	25X1 25 X1
a 75-foot-wide blast deflector located from the test building. The general configuration of the horizontal test building is similar to one at the Dnepropetrovsk Missile	due to photography of poor interpretability or the lack of photographic coverage.	Almost 4 years after the ground breaking, the large	
Development and Production Center. On photo- graphy, the pattern of melted snow on the face of the blast deflector provided evidence of recent test activity. The	1961	new fabrication/assembly building (item 37) was externally complete. It measures eet and contains 221,880 sq ft of roof cover. A high-bay section measuring 280 by	25X1
group of structures situated at the southern end of the test building cannot be accurately delineated from available photography.	photography of 1961 was of very poor inter- pretability. Although many of the smaller buildings were probably present in 1961, only the large fabrication/assembly	70 by 75 feet high is situated on the east end of the building. Another new building (item 46) containing a high-bay section with a height of 50 feet was first observed on photog-	25X1
Immediately southwest of the horizontal test building are 2 sets of horizontal pressure tanks (item 51). Each tank in the first set of 4 tanks measures and	buildings and some additional buildings could be confidently identified.	raphy; however, the construction status of this building remained in doubt until The location and configuration of this building suggest a test and/or assembly	25X1
is connected to a building which measures feet. Each tank in the other set of 4 tanks, located 100 feet to the south, measures 20 by 10 feet. The proximity of these	1962	function. In the South Area, construction on the new shop building (item 22) continued.	
tanks to the horizontal test building suggests that they are involved in a test process.	During 1962, ground scarring for a large fabrication/assembly building (item 37) was observed in the North Area.	1967	
A suspect missile test facility has been observed under construction 7 nm east-northeast of Arms Plant 66 at 55-08N 059-54E. An apparent vertical test position under	No other new construction was observed. However, the quality of the photography did not permit the identification of many of the buildings at this installation.	In the horizontal test building (item 50) was identified in the North Area on large-scale photography. Security fence around the new fabrication/assembly building	25X1
construction is visible on the eastern edge of this facility. A functional relationship between Arms Plant 66 and the suspect test facility is suggested by the proximity of the 2	1963	(item 37) was nearing completion. By activity was again evident outside this building. A conduit was being installed on the south side of the building while an excavation	25X1
installations and the fact that rail service exists between them. The suspect test facility may be designed to test new missile hardware to be produced at Arms Plant 66.	Construction continued on a fabrication/assembly building (item 37). A small workshop (item 30) had been erected since 1962 in the South Area. A new section had	for a new building was observed on the east side. No new construction activity was observed at the horizontal test building.	-

also been added to a large fabrication/assembly building

(item 15b) in the South Area. This addition increased the

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length of the building by 220 feet.

The construction program for Arms Plant 66 between

1961 and 1966 has been limited; 7 new structures were

either completed or are presently under construction.

In the South Area, the new shop building (item 22) was

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nearing completion. Footings for a new building were also

observed near the west edge of this area.

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Table 1. Descriptions and Dimensions of Structures at Armaments Plant 66, Zlatoust, USSR (item numbers keyed to Figure 3)

Iten	Function/Description	Dimensions* L (ft) L W H	Roof Cover (sq ft)	Date First Observed**	Pate Considered Complete***	Explanatory Notes	Item	Function/Description	D L	imensions* (ft) W H	Roof Cover (sq ft)	Date First Observed**	Date Considered Complete***	Explanatory Notes	
1 2 3 4 5	Support bldg Admin/shop bldg Prob workshop Workshop Foundry						33 34 35 36 37	Workshop Machine shop Warehouse Warehouse Fabrication/assembly bl	Ida					Dimensions overall; ground	25X1
6	Workshop Workshop					Addition was constructed on the W end of bldg during 1966	, ,,	T autroaction, assembly of	ug					scarring first evident in little progress made by externally com-	25X1 25X1 25X1 25X1
8 9 10 11	Warehouse Storage shed Storage shed Support bldg						38	High-bay section Admin bldg						plete by Width measurement is approximate	25X1
12 13 14	Powerplant Admin bldg Admin bldg Fabrication/assembly bldg						39 40 41	Fabrication/assembly bl Machine shop/workshop Fabrication/assembly bl	-					High-bay section on the north side of bldg could be used for	
16	a Old section b New section Fabrication/assembly bldg							High-bay section						missile assemblies and/or testing	
17 18 19 20	Prob forge/machine shop Support bldg Machine shop Warehouse				Ī	Dimensions are overall	43 44	Support bldg Engineering/shop bldg Workshop Explosives storage bldg						Bldg is long	25X1
21 22	Warehouse Shop bldg (U/C)					Construction is nearing completion		Poss test bldg						Status undetermined when first observed in east portion of bldg measures by 60 ft with 50-ft ceiling	25X1 25X1
23	Storage tank					Flat top; being constructed in conjunction with shop bldg (item 22); probably became operational at that time	48 49	Prob machine shop Workshop Small workshop							
24 25 26	Workshop/warehouse Workshop/warehouse							Horizontal test bldg						Overall dimensions; blast deflector located approx ft forward of bldg; see Figures 4 and 5	25X1
27 28 29 30	Small workshops (2) Workshop/warehouse Workshop/warehouse Workshop						51	Horizontal pressure tanks (8) a (4) b (4)						Although these structures present as early as 1962,	
31 32	Workshop Support bldg													identification as tanks was	25X1

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^{*}Dimensions are accurate to within ±5 ft or ±5% horizontally ______or ±8% vertically, whichever is greater.
**Unless otherwise noted, the Date First Observed is the first date that the item was recognizable as a structure.
***The Date Apparently Complete is the first date the structure outwardly appeared complete; this date may not be the same as the date the structure was operational.

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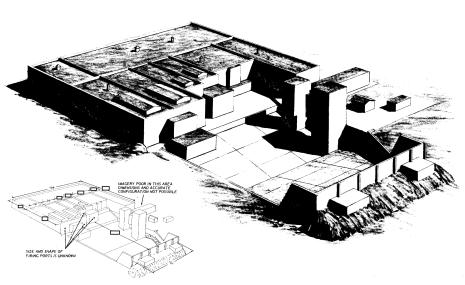
FIGURE 3. LAYOUT OF ARMAMENTS PLANT 66.

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FIGURE 4. PERSPECTIVE OF THE HORIZONTAL TEST BUILDING (item 50, Figure 3).

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	MAPS OR CHARTS			
	ACIC. US Air Target Chart, Series 200, Sheet 0164-7			
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	2. NPIC. R-15/62, Zlatoust Armament Plant, Zlatoust, USSR, Feb 62 (TOP SECRET		25X1
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